

Attorney Docket No. NC 29256
Application of Patel et al.

1 1. A method within an electronic device for adjusting a dialing sequence used
2 for initiating a call in a wireless communication system, the electronic
3 device operating in a region, the method comprising the steps of:
4 evaluating the dialing sequence to determine if the dialing sequence
5 requires any adjustment;
6 determining a first code of the region based on current location of the
7 electronic device, if determined that the dialing sequence requires any
8 adjustment; and
9 adjusting the dialing sequence based on said first code of the region.

1 2. The method as claimed in claim 1, wherein the step of evaluating
2 comprises a step of determining if the dialing sequence represents an
3 emergency number.

1 3. The method as claimed in claim 2, wherein the step of adjusting comprises
2 a step of using a current location emergency number associated with said
3 first code of the region, if determined that the dialing sequence represents
4 an emergency number.

1 4. The method as claimed in claim 3, wherein the step of determining first
2 code comprises the step of accessing a database, said first code
3 comprising a country code.

1 5. The method as claimed in claim 2, wherein said step of determining if the
2 dialing sequence represents an emergency number, comprises a step of
3 determining if the dialing sequence is in a list of emergency numbers, said
4 list of emergency numbers are stored in a database.

1 6. The method as claimed in claim 1, wherein the step of determining said
2 first code of the region comprises the step of accessing a memory, said
3 memory storing a base station area code and the step of setting said first
4 code to said base station area code.

Attorney Docket No. NC 29256
Application of Patel et al.

1 7. The method as claimed in claim 1, wherein the step of determining said
2 first code of the region comprises the step of determining a position of the
3 electronic device.

4

1 8. The method as claimed in claim 7, wherein the step of determining said
2 first code of the region further comprises the step of accessing a database
3 to determine an area code associated with said determined position of the
4 electronic device.

1 9. The method as claimed in claim 1, wherein the step of evaluating the
2 dialing sequence, comprises the step of determining if a length of the
3 dialing sequence equals to a minimum length required by the region, the
4 region associated with said first area code.

1 10. The method as claimed in claim 1, wherein the step of evaluating the
2 dialing sequence, comprises the step of determining if a length of the
3 dialing sequence equals to a minimum length required by a home region
4 associated with an assigned home area code of the electronic device.

1 11. The method as claimed in claim 1, further comprising the step of
2 determining a location category based on said first code of the region and
3 the step of setting said location category to an In_home region category,
4 an In_neighbor region category or an In_roaming region.

1 12. The method as claimed in claim 11, wherein the step of determining said
2 location category, comprises the step of setting said location category to
3 said In_home region category, if said determine first code equals to a
4 home area code assigned to the electronic device.

1 13. The method as claimed in claim 11, wherein the step of determining said
2 location category, comprises the step of setting said location category to
3 said In_neighbor region category, if said determine first code equals to a
4 neighbor area code assigned to the electronic device.

Attorney Docket No. NC 29256
Application of Patel et al.

1 14. The method as claimed in claim 11, wherein the step of determining said
2 location category, comprises the step of setting said location category to
3 said In_roaming region category, if said determine first code does not
4 equals to a home area code assigned to the electronic device and a
5 neighbor area code assigned to the electronic device.

1 15. The method as claimed in claim 1, wherein the step of adjusting comprises
2 the step of adding an area code to the dialing sequence, said area code
3 provided by the user of the electronic device.

1 16. The method as claimed in claim 15, wherein the step of adding comprises
2 the step of prompting a user to provide said area code.

1 17. The method as claimed in claim 15, wherein the step of adding comprises
2 the step of prompting a user to select said area code from a plurality of
3 area codes.

1 18. The method as claimed in claim 15, wherein the step of prompting the user
2 to select, comprises the step of generating said plurality of area codes.

1 19. The method as claimed in claim 1, wherein the step of adjusting comprises
2 the step of adding a home area code to adjust said dialing sequence.

1 20. The method as claimed in claim 1, wherein the step of adjusting comprises
2 the step of adding a neighbor area code to adjust said dialing sequence.

1 21. An electronic device operated in a region, the electronic device receiving a
2 dialing sequence for initiating a call in a wireless communication system,
3 the electronic device comprising:
4 a processor for evaluating the dialing sequence to determine if the dialing
5 sequence requires any adjustment; said processor further determining a
6 first code of the region based on current location of the electronic device
7 and adjusting the dialing sequence based on said first code of the region if
8 determined that the dialing sequence requires any adjustment.

Attorney Docket No. NC 29256
Application of Patel et al.

1 22. The electronic device as claimed in claim 21, wherein said processor
2 further determines if the dialing sequence represents an emergency
3 number.

1 23. The electronic device as claimed in claim 22, wherein said processor
2 further uses a current location emergency number associated with said
3 first code of the region, if determined that the dialing sequence represents
4 an emergency number.

1 24. The electronic device as claimed in claim 23, wherein said processor
2 further accesses a database to determine said first code, said first code
3 comprises a country code.

1 25. The electronic device as claimed in claim 22, the electronic device further
2 comprising:
3 a memory coupled said processor, said memory comprising a
4 database;
5 said database comprising a list of emergency numbers; and
6 said processor further determines if the dialing sequence is in said list
7 of emergency numbers.

1 26. The electronic device as claimed in claim 21, wherein said processor
2 further receives a base station area code from a base station and sets said
3 first code to said base station area code.

1 27. The electronic device as claimed in claim 21, wherein said processor
2 further determines a position of the electronic device.

1 28. The electronic device as claimed in claim 21, wherein said processor
2 further determines if a length of the dialing sequence equals to a minimum
3 length required by the region associated with said first area code.

1 29. The electronic device as claimed in claim 21, wherein said processor
2 further determines if a length of the dialing sequence equals to a minimum

Attorney Docket No. NC 29256
Application of Patel et al.

3 length required by a home region associated with an assigned home area
4 code of the electronic device.

1 30. The electronic device as claimed in claim 21, wherein said processor
2 further determines a location category based on said first code of the
3 region, prior to adjusting the dialing sequence.

1 31. The electronic device as claimed in claim 30, wherein said location
2 category, comprises an In_home region category, an In_neighbor region
3 category and an In_roaming region category.

1 32. The electronic device as claimed in claim 31, wherein said processor
2 further sets said location category to said In_home region category, if said
3 determine first code equals to a home area code assigned to the electronic
4 device.

1 33. The electronic device as claimed in claim 31, wherein said processor
2 further sets said location category to said In_neighbor region category, if
3 said determine first code equals to a neighbor area code assigned to the
4 electronic device.

1 34. The electronic device as claimed in claim 31, wherein said processor
2 further sets said location category to said In_roaming region category, if
3 said determine first code does not equals to a home area code assigned to
4 the electronic device and a neighbor area code assigned to the electronic
5 device.

1 35. The electronic device as claimed in claim 21, further comprising:
2 an input device coupled to said processor; said input device for
3 receiving an area code from a user of the electronic device; and
4 said processor further for adding said area code to the dialing
5 sequence.

1 36. The electronic device as claimed in claim 35, further comprising:

Attorney Docket No. NC 29256
Application of Patel et al.

2 a display coupled to said processor; and

3 said processor further using said display for prompting the user to

4 provide said area code.

1 37. The electronic device as claimed in claim 35, further comprising:

2 a display coupled to said processor; and

3 said processor further using said display for prompting the user to

4 select said area code from a plurality of area codes.

1 38. The electronic device as claimed in claim 37, wherein the processor

2 further generates said plurality of area codes and displays said plurality of

3 area codes on said display, prior to prompting the user.

1 39. The electronic device as claimed in claim 21, wherein the processor

2 further adds a home area code to adjust said dialing sequence.

1 40. The electronic device as claimed in claim 21, wherein the processor

2 further adds a neighbor area code to adjust said dialing sequence.

1 41. The electronic device as claimed in claim 21, wherein the processor

2 further stores a home area code, a home country code and a list of

3 neighboring area codes prior to initiating the call.

1 42. The electronic device as claimed in claim 21, wherein the processor

2 further receives base station information from a base station, said base

3 station information comprises a base station country code and a base

4 station area code, prior to initiating the call.

1 43. The electronic device as claimed in claim 21, wherein the electronic device

2 comprises a mobile terminal.

1 44. The electronic device as claimed in claim 21, wherein the electronic device

2 comprises a personal digital assistant.

Attorney Docket No. NC 29256
Application of Patel et al.

1 45. A method within an electronic device for adjusting a dialing sequence used
2 for initiating a call in a wireless communication system, the electronic
3 device operating in a current region defined by current location of the
4 electronic device, the method comprising the steps of:
5 evaluating the dialing sequence to determine if the dialing sequence is an
6 emergency number;
7 determining a current location emergency number associated with the
8 current region; and
9 adjusting the dialing sequence to use said current emergency number if
10 determined that the dialing sequence presents said emergency number.

1 46. The method as claimed in claim 45, wherein the step of determining,
2 comprises the step of determining a country code and retrieving said
3 current location emergency number associated with said country code of
4 the current region.

1 47. The method as claimed in claim 46, wherein the step of determining said
2 country code, comprises the step receiving a country code from a base
3 station.

1 48. The method as claimed in claim 46, wherein the step of determining said
2 country code, comprises the step calculating a position of the electronic
3 device and using the position to determine the country code.

1 49. The method as claimed in claim 48, wherein the step of determining said
2 country code, comprises the step receiving said country code from an
3 input device of the electronic device.

1 50. An electronic device operated in a current region based on current location
2 of the electronic device and receiving a dialing sequence for initiating a call
3 in a wireless communication system, the electronic device comprising:

Attorney Docket No. NC 29256
Application of Patel et al.

4 a processor for evaluating the dialing sequence to determine if the
5 dialing sequence is an emergency number; said processor further for
6 determining a current location emergency number associated with the
7 current region and adjusting the dialing sequence to use said current
8 emergency number if determined that the dialing sequence presents
9 said emergency number.

1 51. The electronic device as claimed in claim 50, wherein the processor
2 further determines a country code and retrieves said current emergency
3 number associated with said country code of the current region to
4 determine said current emergency number.

1 52. The electronic device as claimed in claim 51, wherein the electronic device
2 comprises a mobile terminal.

1 53. The electronic device as claimed in claim 51, wherein the electronic device
2 comprises a personal digital assistant.

DEPT OF STATE - GPO 2012